

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/010845

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ H04J15/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl⁷ H04J15/00Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1926-1996 Toroku Jitsuyo Shinan Koho 1994-2004
Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2000-101667 A (Lucent Technologies Inc.), 07 April, 2000 (07.04.00), Par. Nos. [0006] to [0017]; Fig. 1 & EP 0951091 A2 & KR 99083226 A & US 6317466 B1 & US 2001/0050964 A1	1-20
Y	WO 2003/001702 A1 (QUALCOMM INC.), 03 January, 2003 (03.01.03), Full text; all drawings & US 2003/0043732 A1 & EP 1410526 A1 & KR 2004008227 A & US 6751187 B2 & AU 2002320176 A1 & JP 2004-531980 A	1-20

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search
22 October, 2004 (22.10.04)Date of mailing of the international search report
09 November, 2004 (09.11.04)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2002/075953 A2 (HEINRICH-HERTZ-INSTITUT FÜR NACHRICHTENTECHNIK GMBH.), 26 September, 2002 (26.09.02), Page 9, lines 5 to 19 & DE 10114052 C1 & WO 2002/075953 A2 & EP 1374419 A2 & AU 2002302314 A1	1-20
A	JP 2003-110474 A (Lucent Technologies Inc.), 11 April, 2003 (11.04.03), Par. No. [0020] & EP 1289182 A2 & US 2003/0076908 A1	1-20
A	JP 2003-179965 A (Sanyo Electric Co., Ltd.), 27 June, 2003 (27.06.03), Par. Nos. [0050] to [0052] (Family: none)	4, 5, 11, 16, 17, 19
A	JP 2001-333002 A (NTT Docomo Inc.), 30 November, 2001 (30.11.01), Par. Nos. [0050] to [0054] & EP 1158696 A2 & US 2002/0003833 A1 & CN 1349366 A	6, 18
A	JP 2003-032745 A (Matsushita Electric Industrial Co., Ltd.), 31 January, 2003 (31.01.03), Par. No. [0087]; Fig. 12 & WO 2003/007646 A1 & KR 2003036783 A & US 2004/0022176 A1 & EP 1408712 A1 & CN 1473448 A & AU 2002318520 A1	6, 18
A	JP 2002-319885 A (Matsushita Electric Industrial Co., Ltd.), 31 October, 2002 (31.10.02), Par. No. [0047] & WO 2002/087113 A1 & EP 1286481 A1 & KR 2003011904 A & US 2003/0189917 A1 & CN 1461539 A & AU 2002248032 A1	7, 8
A	JP 11-205205 A (Nippon Telegraph And Telephone Corp.), 30 July, 1999 (30.07.99), Full text; all drawings (Family: none)	7, 8
A	JP 2000-209145 A (Nippon Telegraph And Telephone Corp.), 28 July, 2000 (28.07.00), Par. Nos. [0010] to [0015] (Family: none)	9